OBJECT ORIENTED PROGRAMMING LAB

DEPARTMENT: BSCS MORNING.

CLASS: BSCS (36-A).

COURSE: OBJECT ORIENTED PROGRAMMING LAB.

LECTURER: MR. AHMAD

LAB ASSIGNMENT-2

NAME: Abdul Ahad Raza

CLASS: BSCS (36-A)

STUDENT ID: NUML-F21-37114

ROLL NO: BSCS-RC-294

LAB ASSIGNMENT -2

Lab 03 – Object Oriented Programming

Lab Tasks

1. A Student is an object in a university management System. Analyze the concept and identify the data members that a student class should have. Also analyze the behavior of Student in a University Management System and identify the methods that should be included in Student class.

PROGRAM

```
package assignment2.labtask1;
import java.util.Scanner;
public class Assignment2Labtask1
{
private String student_name;
private String rollno;
private String course;
private String behaviour;
private String class_participation;
private String student_attendence;
private String student_examination_remarks;

public void setstudentname()
{
   Scanner sc = new Scanner(System.in);
   System.out.println("STUDENT NAME:");
   student_name = sc.next();
}
public void setrollno()
{
   Scanner sc = new Scanner(System.in);
   System.out.println("STUDENT ROLL NO:");
   rollno = sc.next();
}
public void set_course()
{
   Scanner sc = new Scanner(System.in);
   System.out.println("STUDENT COURSE:");
   course = sc.next();
}

public void student_behaviour()
{
   Scanner sc = new Scanner(System.in);
```

```
    System.out.println("STUDENT BEHAVIOUR:");
    behaviour = sc.next();
}
public void set_class_participation()
{
    Scanner sc = new Scanner(System.in);
    System.out.println("STUDENT CLASS PARTICIPATION:");
    class_participation = sc.next();
}
public void set_student_attendence()
{
    Scanner sc = new Scanner(System.in);
    System.out.println("STUDENT ATTENDENCE:");
    student_attendence = sc.next();
}
public void set_remarks()
{
    Scanner sc = new Scanner(System.in);
    System.out.println("STUDENT EXAMINATION REMARKS:");
    student_examination_remarks = sc.next();
}
public void showdetail()
{
 System.out.println("STUDENT NAME:"+ student_name);
 System.out.println("STUDNET ID:"+ rollno);
 System.out.println("STUDENT COURSE:" + course);
 System.out.println("STUDENT BEHAVIOUR:"+ behaviour);
 System.out.println("STUDENT ATTENDENCE"+ student_attendence);
 System.out.println("STUDENT CLASS PARTICIPATION:"+ class_participation);
 System.out.println("STUDENT EXAMINATION REMARKS:"+ student_examination_remarks);
}
}
```

```java
package assignment2.labtask1;

/**
 *
 * @author Student
 */
public class Labtask1mainclass
{
    public static void main(String[] args)
    {
        Assignment2Labtask1 c1 = new Assignment2Labtask1();
        c1.setstudentname();
        c1.setrollno();
        c1.set_course();
        c1.set_student_attendence();
        c1.student_behaviour();
        c1.set_class_participation();
        c1.set_remarks();
        c1.showdetail();
    }
}
```

OUTPUT:

```
STUDENT NAME:
AHSAN-RAZA
STUDENT ROLL NO:
NUML-F21-37114
STUDENT COURSE:
BSCS-3C(A)
STUDENT ATTENDENCE:
GOOD
STUDENT BEHAVIOUR:
GOOD
STUDENT CLASS PARTICIPATION:
GOOD
STUDENT EXAMINATION REMARKS:
EXCELLENT
STUDENT NAME:AHSAN-RAZA
STUDNET ID:NUML-F21-37114
STUDENT COURSE:BSCS-3C(A)
STUDENT BEHAVIOUR:GOOD
STUDENT ATTENDENCEGOOD
STUDENT CLASS PARTICIPATION:GOOD
STUDENT EXAMINATION REMARKS:EXCELLENT
BUILD SUCCESSFUL (total time: 48 seconds)
```

2. Time is an intangible concept. Analyze the concept and identify the data members and methods that should be included in Time class.

PROGRAM:

```
package assignment2labtask2;
import java.util.Scanner;
public class Assignment2labtask2
{
   private int hour;
   private int minutes;
   private int seconds;
   private String time_relations;

   public void sethour()
   {
      Scanner sc = new Scanner(System.in);
      System.out.println("ENTER YOUR HOUR:");
      hour = sc.nextInt();
   }
   public void setminutes()
   {
      Scanner sc = new Scanner(System.in);
      System.out.println("ENTER MINUTES:");
      minutes = sc.nextInt();
   }
   public void setseconds()
   {
      Scanner sc = new Scanner(System.in);
      System.out.println("ENTER SECONDS:");
      seconds = sc.nextInt();
   }
   public void set_time_relations()
   {
      Scanner sc = new Scanner(System.in);
      System.out.println("ENTER TIME RELATIONS:");
      time_relations = sc.next();
   }
   public void setshowdetail()
   {
      System.out.println("HOUR:"+ hour);
      System.out.println("MINUTES:"+ minutes);
      System.out.println("SECONDS:"+ seconds);
      System.out.println("TIME RELATIONS:"+ time_relations);
System.out.println(hour + ("/")+("")+ minutes + ("/") +("")+ seconds +("")+ ("-")+ time_relations);
}
}
```

```java
package assignment2labtask2;

/**
 *
 * @author Student
 */
public class labtask2mainclass
{
    public static void main(String[] args)
    {
        Assignment2labtask2 cl = new Assignment2labtask2();
        cl.sethour();
        cl.setminutes();
        cl.setseconds();
        cl.set_time_relations();
        cl.setshowdetail();
    }
}
```

OUTPUT:

```
run:
ENTER YOUR HOUR:
12
ENTER MINUTES:
34
ENTER SECONDS:
60
ENTER TIME RELATIONS:
AM
HOUR:12
MINUTES:34
SECONDS:60
TIME RELATIONS:AM
12/34/60-AM
BUILD SUCCESSFUL (total time: 12 seconds)
```